FILE NOTATIONS

Entered in N I D File	✓	Checked by Chief	
Entered On S R Sheet		Copy N I D to Field Office	
Location Map Pinned	✓	Approval Letter	
Card Indexed	✓	Disapproval Letter	
I W R for State or Fee Land			

COMPLETION DATA:

Date Well Completed 3-15-62 Location Inspected

OW____ WW____ TA____ Bond released

GW____ OS____ PA ✓ State of Fee Land

LOGS FILED

Driller's Log 7-11-62

Electric Logs (No.) 2

E____ I____ E-I ✓ GR____ GR-N____ Micro____

Lat.____ Mi-L____ Sonic____ Others____

Subsequent report of abandonment

P. O. Box 1611
Colorado Springs, Colorado
December 22, 1961

Mr. D. F. Russell
District Engineer, U.S.G.S.
231 E. 4th Street South
Salt Lake City, Utah

U-011130-A

Dear Mr. Russell:

Enclosed herewith are the following:

1. Designation of Operator
2. Notice of Intention to Drill
3. Oil and Gas Lease Bond covering Pexco, Inc.
4. Oil and Gas Lease Bond covering C. L. Feldt and James B. Maytag .

We trust that these are in order, but if not, please let us hear from you at your earliest convenience.

Yours very truly,

C. L. FELDT and JAMES B. MAYTAG

By: C. L. Feldt
C. L. FELDT

cc--Pexco, Inc.
Utah Oil & Gas Cons. Comm.

DEC

Budget Bureau No. 42-R358.4
Approval expires 12-31-60.

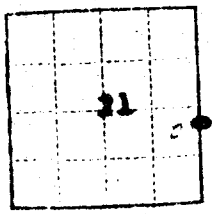
Form 9-331a
(Feb. 1951)

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake

Lease No. U-011130-A

Unit



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

December 22, 1961, 19

Well No. #1 Govt. located 1980 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 21

C/NE/4SE/4 Sec. 21 (¼ Sec. and Sec. No.) 4 South (Twp.) 20 East (Range) S.L.B.M. (Meridian)

Wildcat (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is —— ft. to be furnished later.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Drill 10-3/4" hole to 170 feet and set 150 feet of 8-5/8" 28 lb. J-55 casing, cemented to surface.
2. Expect total depth of well at 2200 feet, or 150 feet into the Mesa Verde formation. Will test all possible producing horizons below 2050 feet.
3. In the event of production will run 4-1/2" 9.5 lb. J-55 casing, protecting all aquifers and oil bearing formations with cement.
4. Will run electric log from bottom of surface casing to total depth, and microlog through porous intervals of Mesa Verde formation.
5. Contractor for this well is Kegwer Drilling Co., Rangely, Colorado.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company C. L. Feldt and James B. Maytag

Address P. O. Box 1611

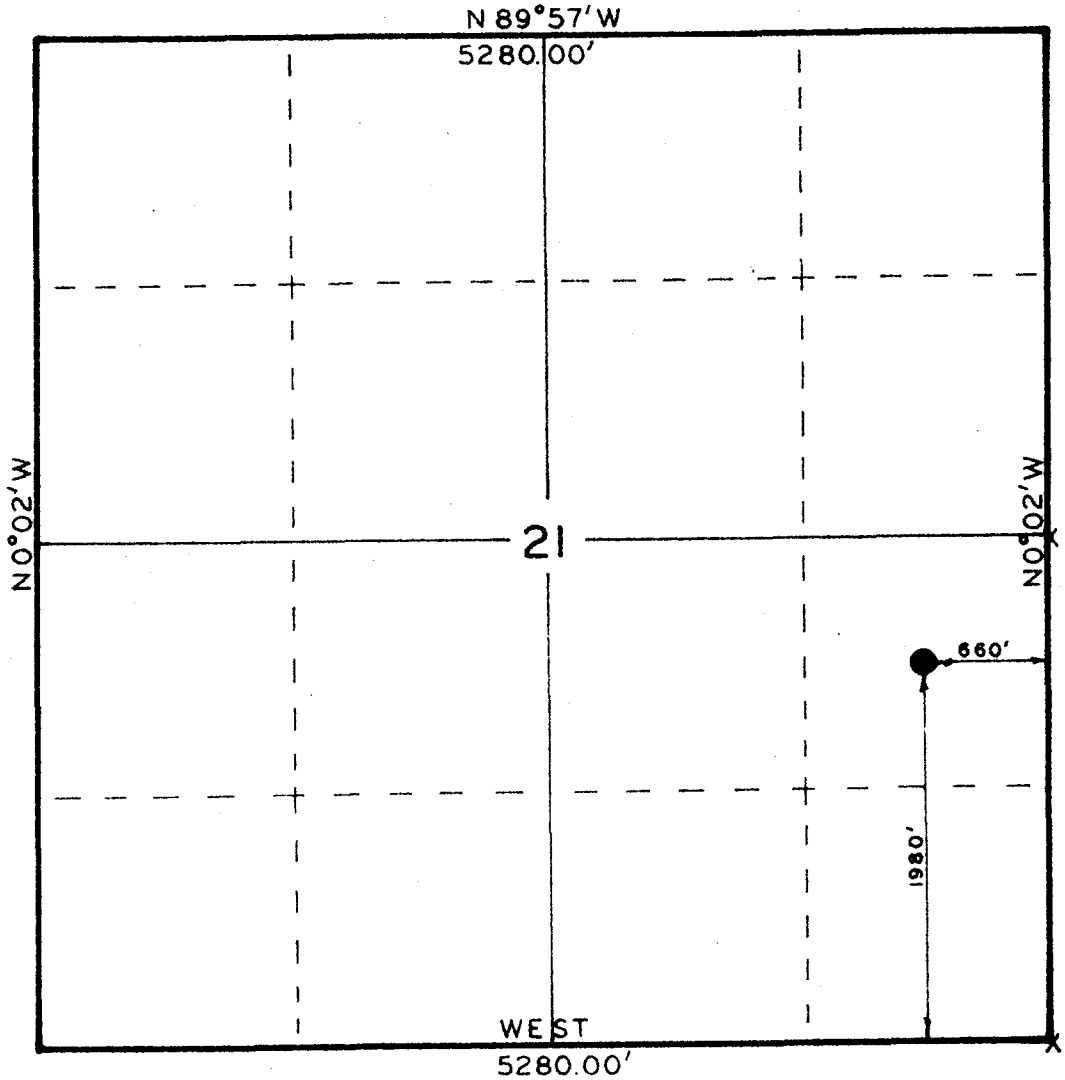
Colorado Springs, Colorado

By

Title

GPO 862040

T4S, R20E, SLB&M



X = Corners Located (stone)

Scale: 1" = 1000'

By: ROSS CONSTRUCTION CO.
Vernal, Utah

PARTY R.D. Ross F. Jaramillo L.E. Wiseman WEATHER Cold-Overcast	**SURVEY** C.L. FELDT & JAMES B. MAYTAG GOVT. NO. 1 LOCATION LOCATED AS SHOWN IN THE NE 1/4, SE 1/4, SEC. 21, T4S, R20E, SLB&M. UINTAH COUNTY, UTAH.	DATE 12/16/61 REFERENCES GLO Township Plat Approved 5/4/1907 FILE FELDT & MAYTAG

FORM 5202

Form 9-1123
(Nov. Dec. 1957)

(Submit in triplicate to appropriate
Regional Oil and Gas or Mining Supervisor)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL NO.: U-011130-A

and hereby designates

NAME: C. L. Feldt and James B. Maytag
ADDRESS: P. O. Box 1611, Colorado Springs, Colorado

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Twp. 4 S., Rge. 20 E., S.L.M., Utah

Section 21: S/2; S/2NW/4; NW/4NW/4

Containing 440 acres, more or less

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

PEXCO, INC.

By: .....
DANIEL J. PICKRELL, President

December 15, 1961
(Date)

155 Montgomery St., San Francisco, Calif.
(Address)

Assistant Secretary

U. S. GOVERNMENT PRINTING OFFICE 16—68368-2

December 26, 1961

C. L. Feldt and James B. Maytag
P. O. Box 1611
Colorado Springs, Colorado

Attn: C. L. Feldt

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. #1 Gov't., which is to be located 1980 feet from the south line and 660 feet from the east line of Section 21, Township 4 South, Range 20 East, SLBM, Uintah County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT,
EXECUTIVE DIRECTOR

CBF:awg
cc: Don F. Russell, Dist. Eng.
U. S. Geological Survey
Salt Lake City, Utah

Form OGCC 4

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for January, 1962.

Agent's address P. O. Box 1611 Company C. L. FELDT and JAMES B. MAYTAG

Colorado Springs, Colorado Signed C. L. Feldt

Phone 634-1434 Agent's title Partner

State Lease No. ..... Federal Lease No. U0113-A Indian Lease No. ..... Fee & Pat. ☐

Sec. & ¼ of ¼	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NE/SE/Sec.21	4S	20E	Gov't 1					Shut down-weather

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift SI-Shut In D-Dead GI-Gas Injection TA-Temp. Aban. WI-Water Injection

February 21, 1962

C. L. Feldt and James B. Maytag
P. O. Box 1611
Colorado Springs, Colorado

Attn: C. L. Feldt

Re: Well No. #1 Gov't.,
Sec. 21, T. 4 S., R. 20 E.,
Uintah County, Utah

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the month of January, 1962 for the subject well. Rule C-22 (1) of the General Rules and Regulations and Rules of Practice and Procedure, State of Utah, Oil & Gas Conservation Commission requires that such report be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCC-4, "Report of Operations and Well Status Report", on company forms containing substantially the same information, or on U. S. Geological Survey Form 9-329, "Lessee's Monthly Report of Operations". We are enclosing copies of Form OGCC-4 for your convenience.

Your early attention to this matter will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KAREN BERGMAN,
RECORDS CLERK

kpb
Enclosures: (Forms)

Form OGCC 4

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for February, 1962.

Agent's address P. O. Box 1611 Company C. L. FELDT and JAMES B. MAYTAG

Colorado Springs, Colorado Signed C. L. Feldt

Phone 634-1434 Agent's title Partner

State Lease No. ..... Federal Lease No. U0113-A Indian Lease No. ..... Fee & Pat. ☐

Sec. & ¼ of ¼	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
NE/Se/Sec.21	4S	20E	Gov't 1					Drilling at 1400

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift SI-Shut In D-Dead GI-Gas Injection TA-Temp. Aban. WI-Water Injection

Form 9-331a
(Feb. 1951)

Budget Bureau 42-R358.3.
Approval expires 12-31-55.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake
Lease No. U-011130-A
Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 8, 1962

Well No. #1 Govt. is located 1980 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 21

C/NE/4SE/4 Sec. 21 (¼ Sec. and Sec. No.) | 4 South (Twp.) | 20 East (Range) | S. L. M. (Meridian)

Wildcat (Field) | Uintah (County or Subdivision) | Utah (State or Territory)

The elevation of the derrick floor above sea level is 6282 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Plug No. 1 from 2045 feet to 1970 feet with 25 sacks of cement.

2. Plug No. 2 from 180 feet to 120 feet with 20 sacks of cement.

3. Plug No. 3 with 5 sacks at top of service pipe cementing in dry hole marker.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company C. L. FELDT and JAMES B. MAYTAG

Address P. O. Box 1611

Colorado Springs, Colorado

By Erdice E. Childs

Title Agent

U. S. GOVERNMENT PRINTING OFFICE 16—8437-5

July 11, 1962

C. L. Feldt & James B. Maytag
P. O. Box 1611
Colorado Springs, Colorado

Re: Well No. #1 Gov't
Sec. 21, T. 4 S, R. 20 E.,
Uintah County, Utah

Gentlemen:

As of yet we have not received the well log for the above mentioned abandoned well. We would appreciate it very much if you would complete and return the enclosed forms OGCC-3 in duplicate. The U. S. Geological Survey Form 9-330 may be used in lieu of our forms.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CONNIE F. PALOUKOS
RECORDS CLERK

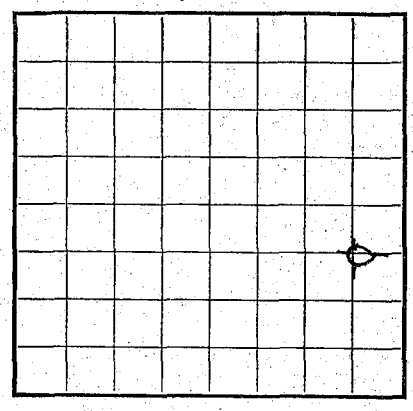
CFP:cn

Encl.

Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Salt Lake
SERIAL NUMBER U-011130-A
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Feldt & Maytag Address P. O. Box 1611, Colorado Springs, Colorado

Lessor or Tract Government Field W. C. State Utah

Well No. 1 Sec. 21 T. 4S R. 20E Meridian S. L. M. County Uintah

Location 1980 ft. {N. / S.} of S Line and 660 ft. {E. / W.} of E Line of Elevation 6282'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed C. L. Feldt

Date July 12, 1962 Title Partner

The summary on this page is for the condition of the well at above date.

Commenced drilling December 29, 1961 Finished drilling March 7, 1962

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ____ to ____ No. 4, from ____ to ____

No. 2, from ____ to ____ No. 5, from ____ to ____

No. 3, from ____ to ____ No. 6, from ____ to ____

IMPORTANT WATER SANDS

No. 1, from ____ to ____ No. 3, from ____ to ____

No. 2, from ____ to ____ No. 4, from ____ to ____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
8-5/8	24#	8R	J-55	151'	Guide				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	151'	65	Howco		

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

FOLD | MARK

Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 2140 feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Rec 3-15-22, 19____ Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Hegwer Drilling Co., Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1935	1935	Duchesne River
1935	2140	205	Mesa Verde

[OVER]

16—43094-4

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Well spudded Dec. 29, 1961 - Surface hole reamed to 12¼" - Ran cemented 151' of 8-5/8" surface pipe on Feb. 3,,1962. 7-7/8" hole out from under surface pipe. On Feb. 10 it was necessary to shut down drilling operations because of muddy roads - could not get to location. Drilling resumed on Feb. 22, and continued uninterrupted until total depth was reached on March 7. All of Duchesne River Formation very hard drilling - a total of 23 bits used in drilling to 2140'.

Tar Sands were logged at: 1780-1870 & 1990-2030.

No important water sands were logged.

Maximum Deviation recorded in hole was 1½° at 1300'.

FELDT & MAYTAG
Oil Producers

COLORADO SPRINGS, COLORADO

C. L. FELDT
JAMES B. MAYTAG

July 12, 1962

MELROSE 4-1434
P. O. Box 1611

The State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
10 Exchange Place
Salt Lake City 11, Utah

Attention Connie F. Paloukos

Gentlemen:

Well No. 1 Government
Sec. 21, T.4S., R.20E.
Uintah County, Utah

With reference to your letter dated July 11, 1962, we are enclosing herewith in duplicate the well log for the above mentioned abandoned well.

We regret the delay in furnishing this information, but we did not know that we were required to furnish anything but an electric log to the state.

Yours very truly,

FELDT & MAYTAG

C. L. Feldt

CLF/kh
Encl.

Form 9-331a
(Feb. 1951)

Copy H. L. C.

Budget Bureau 42-R358.3.
Approval expires 12-31-55.

Land Office Salt Lake

Lease No. U-011130-A

Unit

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	X
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

December 17, 1962

Well No. 1 Govt. is located 1980 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 21

C/NE/4SE/4 Sec. 21 (¼ Sec. and Sec. No.) 4 South (Twp.) 20 E. (Range) S. L. M. (Meridian)

Wildcat (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 6282 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Well Plugged and abandoned March 15, 1962.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company C. L. FELDT and JAMES B. MAYTAG

Address P. O. Box 1611

Colorado Springs, Colorado

By C. L. Feldt

Title Partner

U. S. GOVERNMENT PRINTING OFFICE 16—8437-5

FELDT & MAYTAG
Oil Producers

COLORADO SPRINGS, COLORADO

C. L. FELDT
JAMES B. MAYTAG

MELROSE 4-1434
P. O. BOX 1611

December 17, 1962

United States Department of the Interior
Bureau of Land Management
Land Office
P. O. Box 777
Salt Lake City 10, Utah

COPY

Gentlemen:

Enclosed herewith you will find Form 9-331 a in triplicate showing subsequent report of abandonment of our No. 1 Government Well, SE/4, Section 21, T4S, R20E, Uintah County, Utah.

The reason for the delay in filing this report is due to the fact that this is the first well we have drilled on Government land; and when we filed the Notice of Intention to Abandon Well, we presumed that was the only notice required by your office.

Should you need any further information regarding this well, please let us hear from you.

Yours very truly,

FELDT & MAYTAG

C. L. Feldt

C. L. Feldt

CLF/kh
Encl.

cc Mr. D. F. Russell, District Engineer
State of Utah, Oil and Gas Conservation Commission
Hegwer Drilling Company
Pexco, Inc.
Armit Insurance Agency, Inc.

Branch of Oil and Gas Operations
416 Empire Building
Salt Lake City 11, Utah

January 9, 1963

Subject: Oil & Gas Lease U-011130-A
Uintah County, Utah

C. L. Feldt and James B. Maytag
P. O. Box 1611
Colorado Springs, Colorado

Gentlemen:

Since receipt of your Subsequent Report of Abandonment of well 1, NE¼SE¼ sec. 21, T. 4 S., R. 20 E., Uintah County, Utah, I have made a trip to the well on January 4, and regret to report this is one of the worst clean-up jobs we have seen in a long time.

We request you have the contractor remove the portion of the rig substructure left at the location, have all junked material thrown into the reserve pit and that pit filled and leveled. The rat hole is open and should be filled by hand instead of merely being passed over by the bulldozer. Please see that this work is performed in the very near future and notify us when ready for a second inspection.

Could you advise us the name of the dirt contractor that we might inform him of our general requirements?

Very truly yours,

(Orig. Sgd.) D. F. RUSSELL

D. F. Russell,
District Engineer

DFR/id

cc: State Oil & Gas Commission

43-047-10371

WELL SUMMARY

COMPANY:	Feldt & Maytag
WELL:	# 1 Government
AREA:	Asphalt Ridge
LOCATION:	C NE SE S21-T4S-R20E, Uintah County, Utah
ELEVATION:	6282' DF 6275' Ground
CONTRACTOR:	Hegwer Drilling Co., Rangely, Colorado
SPUDDED:	February 1, 1962
FINISHED DRILLING:	March 7, 1962
CASING:	8-5/8" @ 151' W/65 Sx.
CORES:	(1) 2100-2117 (2) 2117-2140
DRILL STEM TESTS:	None
LOGGING SERVICES:	Schlumberger I-ES 152-2143 " Microlog-Caliper 1000-2142
TOTAL DEPTH:	2140' (Driller) 2143' (Schlumberger)
STATUS:	D&A
PLUGGING PROCEDURE:	Plug # 1 - 2045-1970 - 25 Sx. Plug # 2 - 180-130 - 20 Sx. 5 sacks in top of surface pipe with 4"X4' regulation marker cemented in.

FORMATION TOPS

DUCHESNE RIVER (Tertiary)	Surface
MESAVERDE (Cretaceous)	1935' (Sample & Schlumberger)

SAMPLE DESCRIPTION

500-510	Sandstone, gray to tan, coarse to conglomeratic, few limestone fragments.
510-520	Sandstone, pink to red, fine to medium grained, some red and gray shale.
520-530	Shale, maroon to pink, some mottling, trace sandstone.
530-540	Sandstone, light gray to tan, coarse to conglomeratic
540-560	Shale, maroon, tan, some mottling, trace coarse sandstone.
560-590	Sandstone, gray to tan, coarse to conglomeratic - few limestone fragments (probably cobbles or boulders)
590-640	Shale, maroon, tan, some mottling, locally sandy.
640-720	Sandstone, light gray to pink, coarse to conglomeratic - few limestone fragments (probably boulders)
720-740	Shale, maroon, tan, gray, some mottling, abundant sandstone as above.
740-750	Shale & sandstone, shale as above, sandstone is gray to tan, coarse to conglomeratic.
750-810	Sandstone, tan to gray, coarse to conglomeratic, few limestone fragments.
810-880	Shale, maroon predominant, some gray and green mottling, locally sandy.
880-900	Sandstone, light gray to tan, coarse grained, friable, with abundant shale as above.
900-980	Shale, gray to tan, some maroon, with abundant light gray siltstone.
980-1000	Sandstone, brown to maroon, medium to coarse grained, locally silty and dirty.
1000-1070	Sandstone, gray to tan, coarse grained to conglomeratic, locally pyritic, hard, few limestone and chert fragments.

1070-1100 Shale, maroon predominant, some gray and tan, locally sandy.

1100-1120 Sandstone & shale, shale as above; sandstone is light gray, coarse grained, hard - abundant dark gray limestone fragments. Trace oolitic limestone, trace pyrite.

1120-1130 Sandstone, light gray, medium to coarse grained, locally pyritic, hard, abundant maroon shale.

1130-1180 Shale, maroon, brown, tan, with abundant sandstone as above.

1180-1200 Sandstone, gray, coarse, angular, some limestone and chert fragments - considerable shale as above.

1200-1210 Sandstone, as above predominant - abundant ostracodal limestone - abundant maroon shale.

1210-1220 Sandstone & Shale, sandstone is gray, coarse to finely conglomeratic; shale is mostly maroon, locally silty.

1220-1240 Sandstone, gray, coarse grained, fairly friable, trace chert.

1240-1310 Shale, gray, tan, brown, maroon - some mottling.

1310-1360 Shale, maroon, brown, tan, some gray, locally mottled.

1360-1370 Shale, light gray predominant, some brown and maroon - trace gray, coarse grained sandstone, showing slight dead oil stain.

1370-1410 Shale, light gray predominant, some tan and brown - gray shale is slightly bentonitic.

1410-1420 Shale, as above, with trace light gray, medium grained sandstone, showing slight dead oil stain.

1420-1460 Sandstone, gray, medium grained, showing poor to fair saturation with brown to black dead(?) oil - in the few fragments showing good saturation the oil appears to be dead. All of sand shows a bright yellow fluorescence and good CCl_4 cut. Residue from cut shows a dull, yellow fluorescence - most of sand shows fair to good porosity and permeability.

1460-1490 Sandstone, light gray, medium grained, fairly hard, mostly tight - few fragments show slight dead oil stain - little or no fluorescence - good cut.

1490-1500 Shale, gray, brown, maroon, some mottling.

1500-1560 Skip (no samples)

1560-1590 Sandstone, medium gray, fine to medium grained, hard, tight, few fragments show slight dead oil stain - considerable chert.

1590-1600 Skip

1600-1610 Sandstone, light to medium gray, fine to medium grained, hard, tight, considerable chert - trace pyrite.

1610-1620 Shale, gray and brown, with trace light gray, very fine grained, hard, tight sandstone.

1620-1630 Sandstone, light gray, fine to medium grained, fairly friable but tight - an occasional frugment shows slight dead oil stain.

1630-1690 Shale, light gray to greenish-gray, some brown shale.

1690-1700 Shale, as above, with trace of light gray, fine grained, hard, tight sandstone.

1700-1720 Sandstone, gray, fine to medium grained, friable, tight.

1720-1760 Shale, brown, maroon, gray, with trace sandstone as above.

1760-1770 Shale, as above, with trace sandstone showing dead oil.

1770-1790 Sandstone, light gray, fine to medium grained, some showing dead oil stain - very slight to no fluorescence - good cut.

1790-1870 Sandstone, black tar sand - no fluorescence, good cut but residue shows no fluorescence.

1870-1890 Shale, medium gray to light gray, some greenish-gray.

1890-1900 Shale, as above, with abundant black tar sand still in samples.

1900-1930 Sandstone, light gray, fine to medium grained, hard, tight, abundant chert

TOP MESAVERDE 1935'

1930-1940 Sandstone, as above with trace coal.

1940-1960 Shale, dark gray to black, carbonaceous, much lignite grading to low grade coal.

1960-2000 Shale, dark gray, carbonaceous, abundant lignite grading to low grade bituminous coal - trace of gray, fine grained, sandstone showing some black tar saturation (cavings?).

2000-2030 Sandstone, black tar sand, fine to medium grained, no fluorescence - good cut with CCl_4 but remaining black oil film shows no fluorescence after CCl_4 has evaporated.

2030-2060 Shale, dark gray to black, abundant lignite and coal.

2060-2090 Shale, as above, with abundant light gray and greenish-gray shale cavings - poor samples.

2090-2100 Shale, green to greenish-gray predominant in sample (cavings) some dark gray carbonaceous shale, trace lignite.

CORE # 1 - 2100-2117' - Recovery 16'

U 9' Sandstone, gray to tan, fine to medium grained, friable, no visible stain, no fluorescence, excellent cut, brown oil film cuts out of sample - dry residue has no fluorescence - appears wet.

4' Shale, dark gray with flecks of carbonaceous material, hard. Dip 40°.

1' Sandstone, dark gray to brownish gray, fine grained, friable, good porosity and permeability, no visible oil stain on fresh sample, no fluorescence, good cut - heavy brown to black oil cut out of sand - oil film residue shows no fluorescence. appears wet.

L 2' Shale, dark gray, carbonaceous, hard.

CORE # 2 - 2117-2140 - Recovery 16'

U 6' Shale, dark gray, carbonaceous, locally silty, hard, Dip 42°.

3' Sandstone, medium gray, fine grained, some salt and pepper, fairly friable, slight petroliferous odor on fresh break. No visible stain, no fluorescence - dry residue oil film has no fluorescence - appears wet. *

Rim Rock

4' Shale, dark gray, carbonaceous, locally silty with a few laminae with sand partings - Dip 42°.

L 3' Sandstone, medium gray, fine grained, friable, salt and pepper, good porosity and permeability, no visible stain, no fluorescence - good cut - appears wet. *

GEOLOGIC NOTES

The Feldt & Maytag # 1 Govt. well was located not more than about 300' northwest of a well drilled by Union Oil Co. of Calif., in 1942. It was felt by Mr. Gordon Hurd, who made a sample examination of the Union well, that the top sand body of the Mesaverde Formation may have contained live oil rather than the deadoil or tar so common to the area. The present operation was designed to core this sand body in order to determine the nature of the oil.

In the Union well this sand was encountered at a depth of 2105' and it was anticipated at approximately the same depth in this well. Drilling had proceeded to a depth well below 2000' when the writer reached the location. By the time the samples were examined the predetermined coring depth had been reached. Furthermore, poor sample quality left some doubt as to eth exact Mesaverde top.

Due to the Mesaverde being encountered about 100' structurally higher in this well than in the Union well, the sand in question was drilled, and coring was done lower in the section. Top of Mesaverde was recorded on logs at 1935', with the upper saturated sand being logged at 1993-2027'. Samples showed this sand to be well saturated with heavy, black, tar-oil, showing no fluorescence. The zone appeared to be devoid of gas or reservoir energy, so no drill stem test was made.

The unexpected higher structural position of this sand body may suggest that it was encountered at or near the seal formed by the probable oxidation of the oil at outcrop prior to the deposition of the Tertiary. If such were the case, it would be possible for the tar to be present in this well, while a well at a somewhat lower structural position could encounter oil with more life.

Perhaps the most interesting show in the well was recorded between 1420 and 1460'. Although the well saturated portion of this interval appeared to be that of dead oil, it did show good fluorescence, suggesting that it may have had somewhat more life than did the saturation found in all the zones below. This is not to suggest however, that this zone is capable of producing oil.

It is possible that one or more of the tar-oil zones encountered in this well might be capable of producing free oil if sufficient heat could be generated in the formation so as to liquify the oil and generate some gas. A down hole, electronic heating element has been developed for this purpose. It is understood that, to date, this equipment has not been perfected, but good progress is being made. If and when perfected, a device of this nature might liberate substantial quantities of free oil from tar sands, such as those encountered in this well.

OPERATIONAL SUMMARY

The principal operational problems were those created by adverse weather conditions. After much snow and severe cold weather in January, unseasonable warm weather created thawing conditions that melted virtually all the snow on the ground in mid-February.

Although this location was only two and one-half miles off the black top, roads became impassable and the drilling operation was suspended from February 11 through February 21. The latter part of February however, again provided some substantial snowfalls. Thawing conditions again started about March 3 or 4. Although it was possible to continue the operation until completion, the last three or four days provided extremely bad road conditions - entry to the well could be made only by four-wheel drive vehicles.

Virtually all of the 1935' of Duchesne River Formation proved to be very hard, with the resultant slow drilling and short bit life. The combination of the slow rate of penetration and adverse weather conditions caused this operation to be substantially more expensive than had been anticipated.

Respectfully submitted,

James W. Mance
Consulting Geologist.

Denver, Colorado
March 1962

6-2[redacted]74

Howie:

Here is the report on the Feldt-Meytag Well drilled near Asphalt Ridge.

I Left out a few unimportant pages but included all Sample descriptions.

Hope it helps,

Regards,

304 17th Street
222-3881

Park Central—
Plaza Level
1515 Arapahoe
572-8554
Denver, Colorado

Return to J.C.

CROSS SECTION

Faulkner

Feldt - Mayberg

&

CARTER & DAVIS